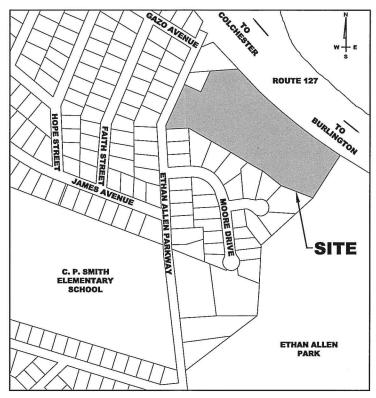
LIAHONA WAY

A 9 UNIT NEIGHBORHOOD

ETHAN ALLEN PARKWAY BURLINGTON, VERMONT



LOCATION PLAN

SHEET INDEX

- 1 OVERALL SITE PLAN
- 2 EXISTING CONDITIONS SITE PLAN
- 3 WETLANDS PLAN
- 4 SITE AND UTILITY PLAN
- 5 LANDSCAPING AND GRADING PLAN
- 6 LIGHTING GRID PLAN
- 7 DRIVE PROFILE, TYPICALS & SPECIFICATIONS DETAILS AND SPECIFICATIONS
- 8 SANITARY AND STORM SEWER
- 9 LANDSCAPING AND EROSION
- 10 WATER
- 11 EROSION PREVENTION & SEDIMENT CONTROL PLAN

OWNERS/APPLICANTS:

TIMOTHY G. ALLES 2658 E. SNOW MOUNTAIN DR. SANDY, UT 84093

WILLIAM E. ELLIS 800 S. MAIN ST. PLEASANT GROVE, UT 84062





DEPARTMENT OF PLANNING & ZONING

RONALD STEWART N/F

VOL. 879, PG. 19

DELORISE KAMINS

VOL. 428, PG. 498

(6)

4

GAZO AVENUE

PATRICK & GLORIANE BROWN

VOL. 972, PG. 200

THOMAS & CATHLEEN

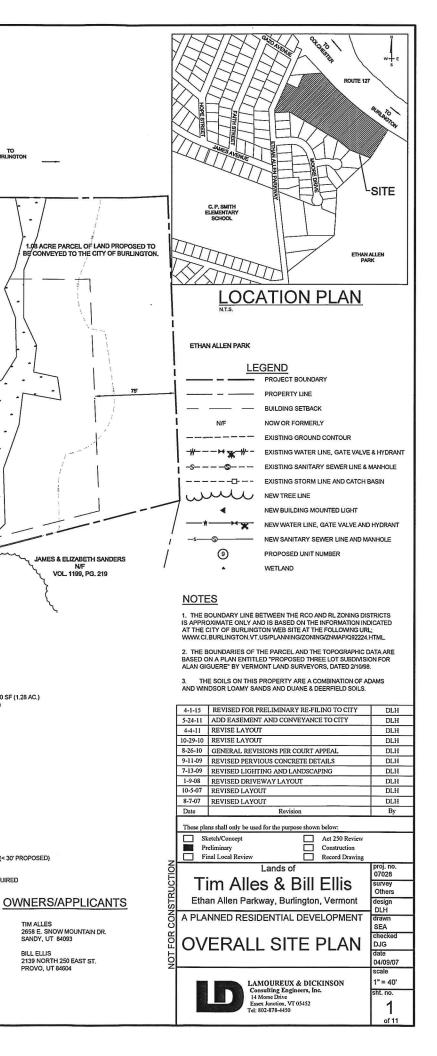
THAN

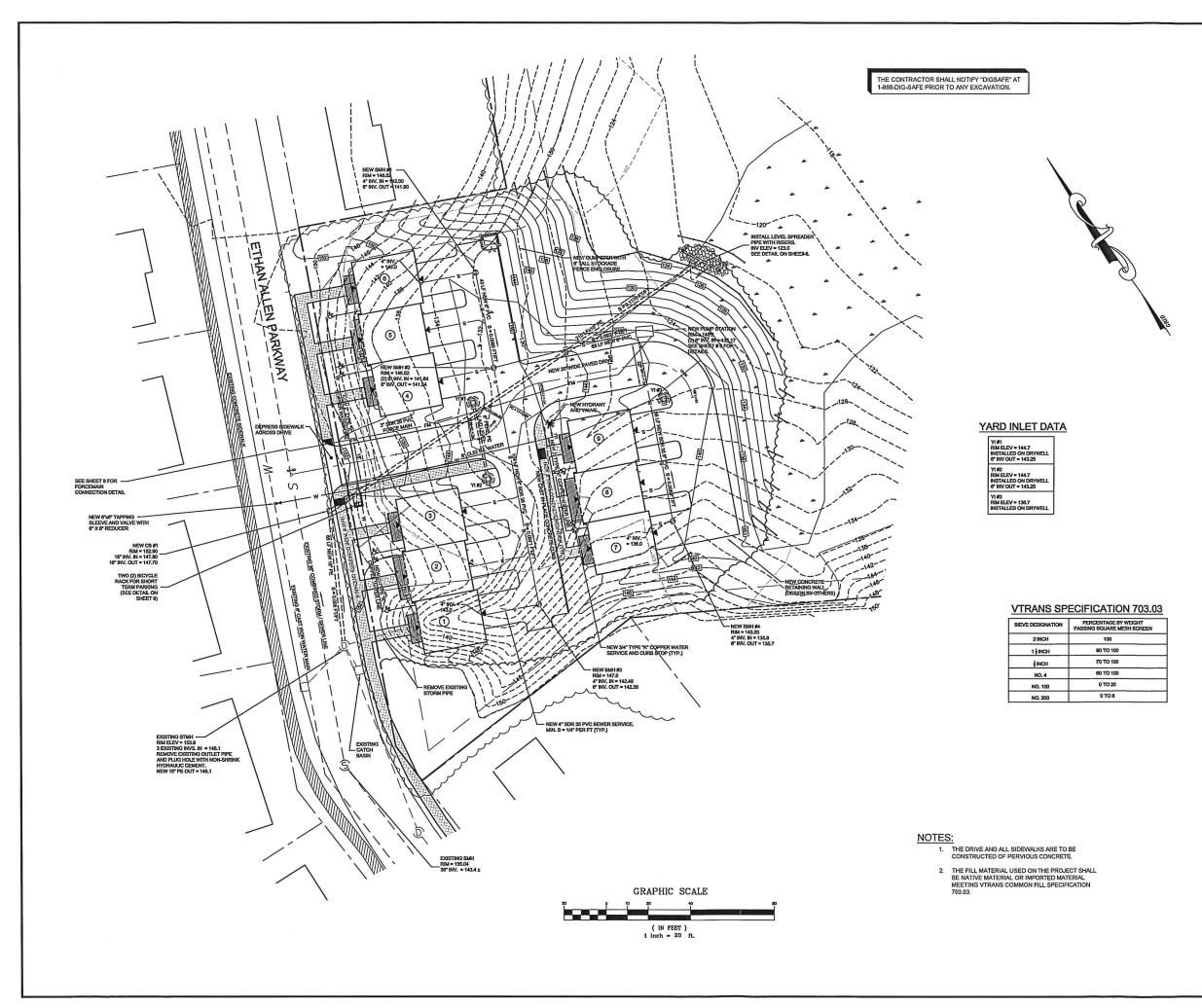
MEND

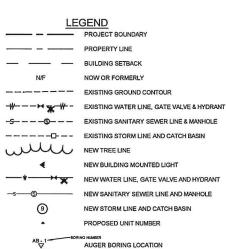
ARANGE

THE CONTRACTOR SHALL NOTIFY "DIGSAFE" AT 1-888-DIG-SAFE PRIOR TO ANY EXCAVATION.

VERMONT ROUTE 127







9-11-09 REVISED PERVIOUS CONCRETE DETAILS DLH 7-13-09 REVISED LIGHTING AND LANDSCAPING DLH 1-9-08 REVISED DRIVEWAY LAYOUT DLH 10-5-07 REVISED LAYOUT DLH 8-7-07 REVISED LAYOUT DLH These plans shall only be used for the purpose shown below: Sketch/Concept
Preliminary
Final Local Review Act 250 Review
Construction
Record Drawing

4-1-15 REVISED FOR PRELIMINARY RE-FILING TO CITY

5-24-11 ADD EASEMENT AND CONVEYANCE TO CITY

8-26-10 GENERAL REVISIONS PER COURT APPEAL

4-4-11 REVISE LAYOUT

10-29-10 REVISE LAYOUT

Lands of Tim Alles & Bill Ellis

Ethan Allen Parkway, Burlington, Vermont

A PLANNED RESIDENTIAL DEVELOPMENT SEA checked SITE & UTILITY

PLAN



Consulting Engineers, I 14 Morse Drive Essex Junction, VT 05452

LAMOUREUX & DICKINSON

4

04/09/07 1" = 20'

DLH

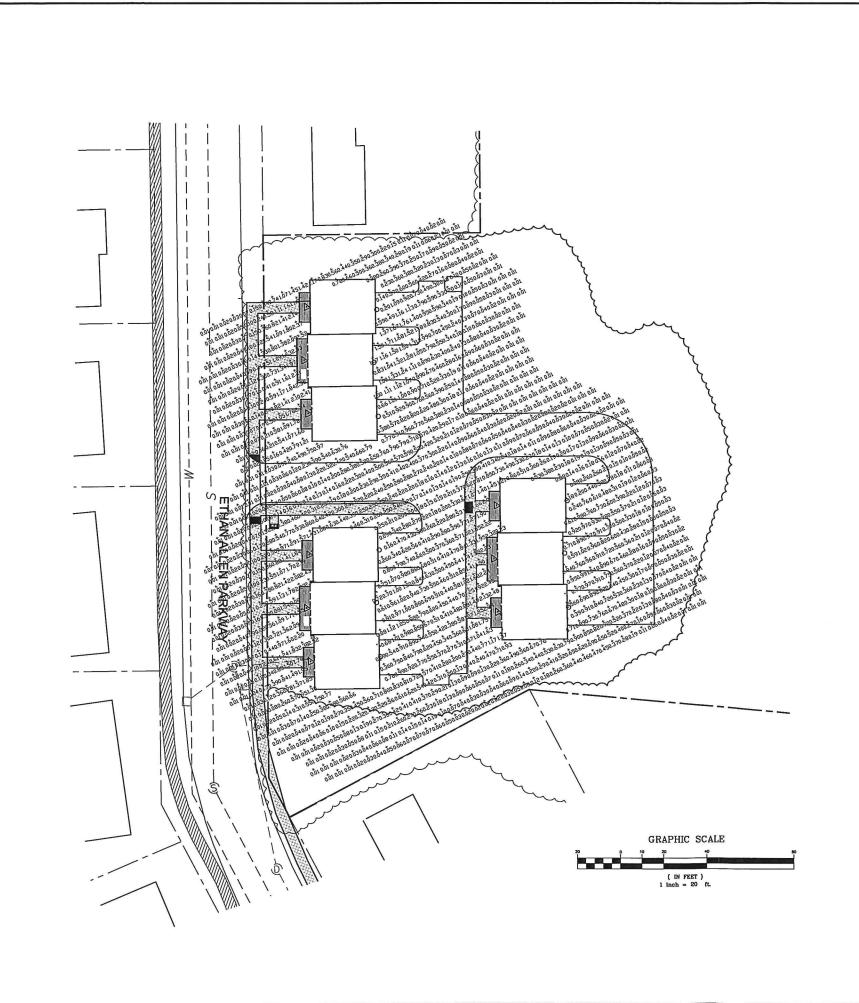
DLH

DLH

DLH

DLH

07028 survey Others



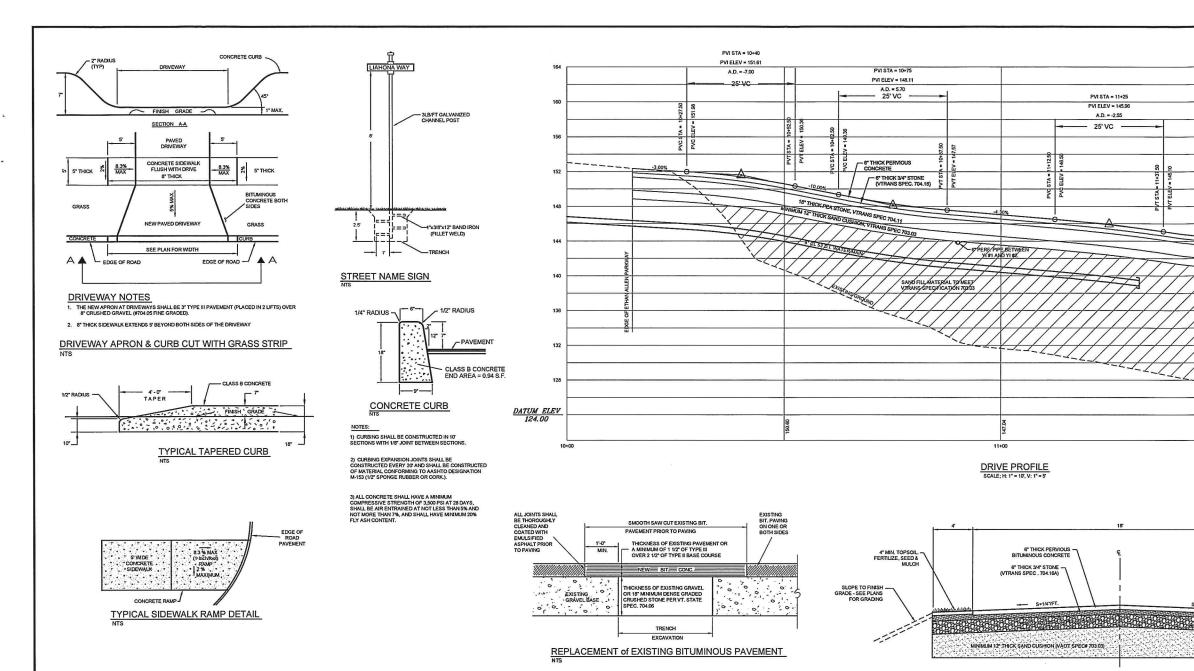
#PTS	SPACING	AVE	MAX	MIN	MAX/MIN	AVE/MIN
1601	5'	0.57	2.76	0.01	549.46	114.27

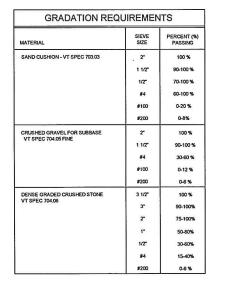
TYP	SYMBOL	DESCRIPTION	LAMP	LUMENS	LLF	QTY
RND		RAB LIGHTING, I (1) "RNDL" WBLEDR18 (ROUND WALL MOUNT) / BLEDR18 (42" ROUND B	(3)	1240	1.00	9
RND2		RAB LIGHTING, I (1) "RNDL" WBLEDR18 (ROUND WALL MOUNT) / BLEDR18 (42" ROUND B	(3)	1240	1.00	9

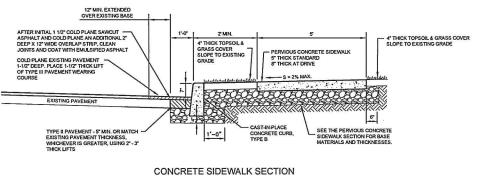
042 LIGHTING SPOT LEVEL (IN FOOT CANDLES)

5-24-11 ADD EASEMENT AND CONVEYANCE TO CITY I 4-4-11 REVISE LAYOUT I 10-29-10 REVISE LAYOUT I	OLH OLH
4-4-11 REVISE LAYOUT I 10-29-10 REVISE LAYOUT I	
10-29-10 REVISE LAYOUT I	DLH
	DLH
8-26-10 GENERAL REVISIONS PER COURT APPEAL I	DLH
	DLH
7-13-09 REVISED LIGHTING AND LANDSCAPING I	DLH
1-9-08 REVISED DRIVEWAY LAYOUT I	DLH
10-5-07 REVISED LAYOUT	DLH
8-7-07 REVISED LAYOUT I	DLH
Date Revision	Ву
These plans shall only be used for the purpose shown below:	
☐ Sketch/Concept ☐ Act 250 Review ☐ Preliminary ☐ Construction ☐ Final Local Review ☐ Record Drawing	
Lands of proj.	
Tim Alles & Bill Ellis Surve Other	
Ethan Allen Parkway, Burlington, Vermont design	
Lands of Tim Alles & Bill Ellis Ethan Allen Parkway, Burlington, Vermont A PLANNED RESIDENTIAL DEVELOPMENT Grave SEA Chec Chec Chec Chec Chec Chec Chec Chec	
Elighting grid plan	ked
date 04/09	
scale	
LAMOUREUX & DICKINSON 1"=	
Consulting Engineers, Inc.	0.
Essex Junction, VT 05452	3
14502-57-5135	f 11
0	EEL









CONCRETE SIDEWALK SECTION ALONG ETHAN ALLEN PARKWAY

PAVING NOTES

- THE CONTRACTOR SHALL APPLY EMULSION TO THE FULL WIDTH OF THE BASE COURSE/EXISTING PAVEMENT BEFORE
 INSTALLING THE TYPE III PAVEMENT OVERLAY.
- 2. A MINIMUM OF ONE (1) GRADATION TEST SHALL BE PERFORMED AT THE CONTRACTORS EXPENSE FOR A COMPACTION EVERY 100 SECTION OF SIDEWALK. TESTS SHALL ALSO BE PERFORMED AT THE CONTRACTORS EXPENSE EVERY 50' SECTION OF SIDEWALK OR MORE OFTEN IF THE TEST FAILS TO MEET THE COMPACTION REQUIREMENTS. THE TEST LOCATIONS SHALL BE SELECTED BY THE BRIGNEER ALL TESTS SHALL BE PERFORMED BY AN INCEPENDENT OUTSIDE FIRM.
- 3. EMULSION SHALL BE PLACED ON THE FACE OF THE CURB WHERE IT WILL BE IN CONTACT WITH THE PAVEMENT.

 THE NEW APPRAIAT PRINCIPLAYS SHALL BE 27 THICK TYPE III PAVEMENT OVER 87 THICK COLISION OF THE PAVEMENT.
- 4. THE NEW APRON AT DRIVEWAYS SHALL BE 2" THICK TYPE III PAVEMENT OVER 8" THICK CRUSHED GRAVEL \$704.05 FINE GRADED. MATCH INTO EXISTING PAVEMENT WITH SAW CUT JOINTS COATED WITH EMULSIFIED ASPHALT.
- 5. EMULSIFIED ASPHALT, TO BE APPLIED AT THE RATE OF 0.015 GAL/SQ YD
- BITUMINOUS CONCRETE PAVEMENT TOLERANCE = +1/4" (FOR TOTAL THICKNESS OF BINDER AND/OR WEARING COURSE).
- 7. BITUMINOUS CONCRETE PAVEMENT SHALL BE 75 BLOW MARSHALL MIX AND PERFORMANCE GRADED BINDER SHALL BE PG 58-34.

5' OR WIDTH AS SHOWN ON PLAN		
MINIMAN SHOWN ON PLAN	tre triAtte of interiaries	- 5" THICK PERVIOUS PORTLAND CEMENT CONCRETE
		— 12" PEA STONE (VTRANS SPEC. 704.11)
		IF UNSUITABLE SOILS ARE ENCOUNTERED, THEY SHALL BE REMOVED AND REPLACED WITH UP TO 12" OF CLEAN SAND BORROW (VTRANS SPEC. 703.03)
		- NATIVE SANDY SUBGRADE

TYPICAL DRIVE CROSS-SECTION

NOTES:

- PRIOR TO PLACING THE CRUSHED STONE SUBBASE, THE CONTRACTOR SHALL NOTIFY THE ENGINEER FOR INSPECTION OF THE SUBGRADE SOILS.
- . AT BUILDING ENTRANCES, THE DEPTH OF CRUSHED STONE SHALL BE INCREASED TO 24" AND THE DEPTH OF SAND BORROW SHALL BE INCREASED TO 24" AND TAPERED TO THE STANDARD DEPTH OVER A MINIMUM TRANSITION DISTANCE OF 10 FEET.
- THE CONCRETE MIX DESIGNS SHALL BE SUBMITTED FOR REVIEW PRIOR TO CONSTRUCTION. THE PERVIOUS CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3,000 PSI, AND A MINIMUM PERMEABILITY OF 300 IN-HR.
- CONSTRUCTION JOINTS SHALL BE MADE WITH A ROLLING JOINT TOOL (NOT CUT) AT INTERVALS OF 10 FEET TO A DEPTH EQUAL TO K OF THE CONCRETE THICKNESS.
- 5. CONCRETE SHALL BE CURED FOR A MINIMUM OF 7 DAYS AS REQUIRED BY THE WRITTEN TECHNICAL SPECIFICATIONS.

PERVIOUS CONCRETE SIDEWALK SECTION

NTS

4-1-15	REVISED FOR PRELIMINARY RE-FILING TO CITY	DLH
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9-11-09	REVISED PERVIOUS CONCRETE DETAILS	DLH
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1-9-08	REVISED DRIVEWAY LAYOUT	DLH
10-5-07	REVISED LAYOUT	DLH
8-7-07	REVISED LAYOUT	DLH
Date	Revision	Ву
	reliminary Construction inal Local Review Record Drawing	
	Lands of	proj. no. 07028
	im Alles & Bill Ellis	
Etha	im Alles & Bill Ellis an Allen Parkway, Burlington, Vermont	07028 survey
Etha	im Alles & Bill Ellis	07028 survey Others design
Etha A PLA	im Alles & Bill Ellis an Allen Parkway, Burlington, Vermont NNED RESIDENTIAL DEVELOPMENT	07028 survey Others design DLH drawn
Etha A PLA	im Alles & Bill Ellis an Allen Parkway, Burlington, Vermont NNED RESIDENTIAL DEVELOPMENT RIVE PROFILE, TYPICALS	07028 survey Others design DLH drawn SEA checked
Etha A PLA	im Alles & Bill Ellis an Allen Parkway, Burlington, Vermont NNED RESIDENTIAL DEVELOPMENT	07028 survey Others design DLH drawn SEA checked DJG
Etha A PLA	im Alles & Bill Ellis an Allen Parkway, Burlington, Vermont NNED RESIDENTIAL DEVELOPMENT RIVE PROFILE, TYPICALS	07028 survey Others design DLH drawn SEA checked DJG date 04/09/07 scale
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Etha A PLA	im Alles & Bill Ellis an Allen Parkway, Burlington, Vermont NNED RESIDENTIAL DEVELOPMENT RIVE PROFILE, TYPICALS AND SPECIFICATIONS LAMOUREUX & DICKINSON	07028 survey Others design DLH drawn SEA checked DJG date 04/09/07 scale N.T.S.

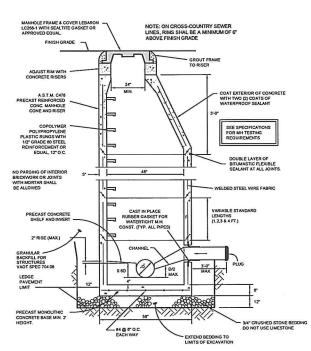
12/10/2015 -8.dwg, .2014\dwg\07028-

GENERAL CONSTRUCTION NOTES

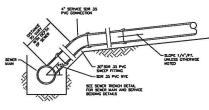
- ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH THE LATEST VERMONT AGENCY OF TRANSPORTATION STANDARD SPECIFICATIONS FOR CONSTRUCTION 2005, THE MANUAL ON UNFORM TRAFFIC CONTROL DEVICES, 2002 EDITION, THE SURLINGTON ZOWING ORDINANCE REQUIREMENTS AND
- UTILITIES INFORMATION SHOWN HEREON WERE OBTAINED FROM BEST AVAILABLE SOURCES AND MAY OR MAY NOT BE EITHER ACCURATE OR COMPLETE. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF EXISTING UTILITIES AND SHALL BE RESPONSIBLE FOR ANY DAMAGE TO AN UTILITY, PUBLIC OR PROVIDE, SHOWN OR NOT SHOWN HEREON. THE CONTRACTOR SHALL CONNECT OR RECONNECT ALL UTILITIES TO THE NEAREST SOURCE THROUGH COORDINATION WITH UTILITY OWN WITH UTILITY OWN.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR DEMOLITION AND REMOVAL OF ALL EXISTING SURFACES, SOULS, VEGETATION, PAVEMENT AND STRUCTURES NECESSARY TO CONSTRUCT THAS PROJECT UNLESS OTHERMISE NOTED ON THESE TAINS. THE CONTRACTOR SHALL REMOVE ALL EXCESS MATERIAL, DEBRIS AND TRASH FROM THE SITE UPON COMPLETION OF CONSTRUCTION, LINLESS OTHERWISE DIRECTED BY THE ENDINEER.
- 5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT THE DUST CREATED AS A RESULT OF CONSTRUCTION DOES NOT CREATE A MUSANCE OR A SAFETY HAZARD, WHERE AND WHEN DEEMED INCESSARY BY THE ENDINEER OR OWNER THE CONTRACTOR SHALL BE REQUIRED TO WET SECTION THE CONSTRUCTION AREA WITH WATER, APPLY CALGRIM CHLORIDE OR SWEEP ASPHALT ROADS WITH POWER BROOM AS DUST CONTROL.
- ANY SURFACES, LINES, OR STRUCTURES WHICH HAVE BEEN DAMAGED BY THE CONTRACTORS OPERATIONS SHALL BE RESTORED TO THE CONDITION AT LEAST EQUAL. TO THAT IN WHICH THEY WERE FOUND IMMEDIATELY PRIOR TO THE BEGINNING OF OPERATIONS.
- 7. CONSTRUCTION OBSERVATION AND CERTIFICATION IS OFTEN REQUIRED AS A CONDITION OF STATE AND LOCAL PERMITS. IT IS RECOMMENDED THAT CONSTRUCTION OF THE IMPROVEMENTS DETAILED ON THESE PLANS BE OBSERVED BY LAMOURELY. & DICKINSON CONSULTING ENGINEERS INC. (LOJD TO DETERMINE IF THE WORK!) BEING PERFORMED IN ACCORDANCE WITH THE APPROVED PLANS AND SPECIFICATIONS. LID WAIVES ANY AND ALL RESPONSIBILITY AND IDAILITY FOR PROBLEMS THAT MAY ARISE FROM FAULER TO FOLLOW THESE PLANS AND SPECIFICATIONS AND THE DESIGN INTENT THAT THEY CONNEY, ANY CHANGES MADE IN THE PLANS AND SPECIFICATIONS OR IN THE CONSTRUCTION OF THE PROPOSED IMPROVEMENTS WITHOUT LADS PRIOR KNOWLEDGE AND CONSENT, AND/OR FAILURE TO SCHEDULE OBSERVATION OF THE WORK AND TESTINS IN PROGRESS.
- TO ASSURE COMPLIANCE WITH THE PLAN(S), THE CONTRACTOR SHALL NOTIFY THE ENGINEER 24 HOURS IN ADVANCE OF STARTING ANY WORK, BEGINNING INSTALLATION OF ANY UTILITIES, BRINGING IN ANY NEW GRAVEL FOR THE NEW PAYED AREAS, PAVING, AND FINIS, INSPECTION.
- HEALTHY EXISTING TREES AS SHOWN ON THE SITE PLAN TO BE SAVED SHALL BE PROTECTED BY THE CONTRACTOR.
- 12. OPEN CUT AREAS SHALL BE MULCHED OUTSIDE OF ACTUAL WORK AREAS, AND SILT FENCE SHALL BE EMPLOYED TO CONFINE SHEET WASH AND RUNOFF TO THE IMMEDIATE OPEN AREA AS ORDERED BY THE ENGINEER.
- AT COMPLETION OF GRADING, SLOPES, DITCHES, AND ALL DISTURBED AREAS SHALL BE SMOOTH AND FREE OF POCKETS WITH SUFFICIENT SLOPE TO ENSURE DRAINAGE.
- 14. ALL FILL SHALL BE PLACED IN 6 INCH LIFTS AND THOROUGHLY COMPACTED TO 56% OF MAXIMUM DENSITY AT OPTIMUM MOISTURE CONTENT AS DETERMINED BY ASTM D698 STANDARD PROCTOR, UNLESS OTHERWISE SPECIFIED.

SANITARY & STORM SPECIFICATIONS

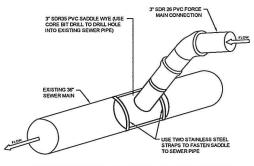
- 1) SANTARY AND STORM SEWER PIPES SHALL BE OF THE SIZE AND TYPE INDICATED ON THE PLANS. PVC PIPE SHALL BE SOR SCONFORMING TO ASTIM SADY, ASTIM SADY, AND ASTIM-FAT, CORPULATED METAL PIPE SHALL CONFORM TO AUSHTO M-190 FOR ACCOMP PIPE AND ANSHTO M-28 FYPE BFOR POLYMERIC COATED STEEL PIPE, CORRULATED POLYETHYLED PIES INALL CONFORM TO ASSITTO M-28, TYPE S (RMOOTH LINED)
- 2) ALL NEW GRAVITY SANTARY SEWER MAINS SHALL BE LEAK TESTED BY A LOW PRESSURE AIR TEST AND DEFLECTION TESTED. THE LOW PRESSURE AIR TEST WILL BE USED TO SIMULATE INFLITATION OR EXFILTRATION OR THE ENGINEER. AIR TEST WILL BE USED TO SIMULATE INFLITATION OR THE SUPERVISION OF THE ENGINEER. AIR TESTING SHALL BE PERFORMED IN ACCORDANCE WITH ASTIN C228-00. THE MINIMUM ALLOWED THIS FOR A PRESSURE FROM PROM 3.5 PS IT O.2 5 PSI SHALL BE 12 MINITES PER 100 FEET OF 5 SEWER. AFTER THE FINAL BACKFILL HAS BEEN IN PLACE AT LEAST 30 DAYS, THE DEFLECTION TEST MAY BE PERFORMED. DIP FEE SHALL EXCEDED A DEFLECTION OF FIVE PERCENT (5S), IF THE DEFLECTION TEST HAY BE PERFORMED. DIP FEET SHALL BE PERFORMED. DIE SHALL HAVE A DAMETER EQUAL TO 55% OF THE RISIDE DAMETER BOUND OF PREVIOUS CONTROL TO SHALL BE IN ACCORDANCE WITH CITY AND STATE STANDARDS AND THESE FLANS.
- 3) ALL SANTARY SEWER MANHOLES SHALL BE TESTED PRIOR TO CONSTRUCTION OF THE INVERT BY THE VACUUM TEST METHOD DESCRIBED IN THE TECHNICAL SPECIFICATIONS. FOR MANHOLES UP TO 10' DEEP THE MINIMAM ALLOWED THAT FOR THE YOLD MORP FROM 10' TO 9' OF MERCILY SHALL BE 2 MINITIES. FOR MANHOLES GREATER THAN 10' DEEP THE MINIMAM ALLOWED TIME SHALL BE 2 MINUTES AND 30 SECONDS.



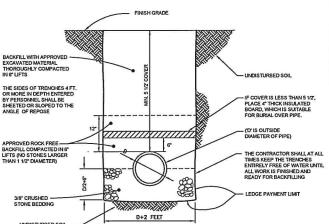
TYPICAL PRECAST SANITARY / STORM MANHOLE



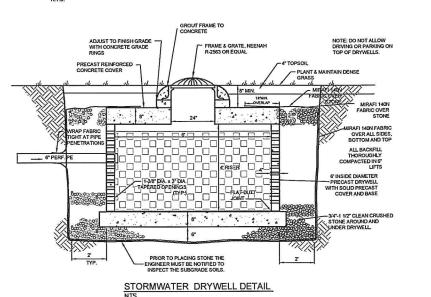
SANITARY SEWER SERVICE CONNECTION



SANITARY SEWER FORCE MAIN CONNECTION INTO EXISTING SEWER MAIN



TYPICAL SANITARY & STORM SEWER TRENCH



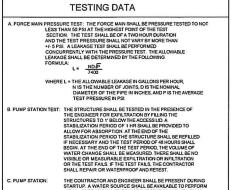
MANNY WAYN AVVINVA FINISH GRADE - 3" GALV. STEEL PIPE FROM SMH #S2&4 FROM SMH #5 2 & 4

8° 6° SDR 35 PVC 9 ELEV = 135 17

SEAL PIPE OPENINGS
WITH NON-SHRINK UNCTION BOX 12" MIN. DEPTH OF 3/4" CRUSHED STONE SHARED PUMP STATION TO POWER SUPPLY

OUTFALL PIPE, SIZE VARIE

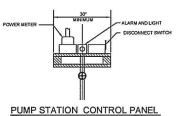
VTRANS TYPE 1 STONE WITH NO FINES KEYED 18" MIN. INTO EXISTING GROUND. SIZE OF PAD TO BE AS SHOWN ON SHEET 2



THE CONTROL SYSTEM SHALL BE CYCLED THROUGH MORE THAN ONCE TO INSURE PROPER SEQUENCING AND OPERATION OF THE PUMPS. THE PUMP SHALL BE FIELD TESTED TO INSURE THE PUMPING CAPACITY MEETS THE PROJECT REQUIREMENTS.

PUMP STATION CONTROL PANEL

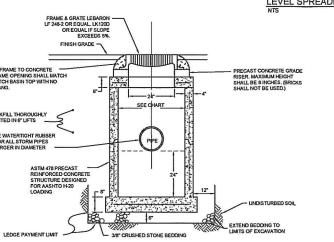
SIDE VIEW



TOP VIEW

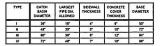
6 18" OUTFALL PIPE. NON-GRANULAR FILL
SHALL BE PLACED LEVEL
ALONG DOWNSLOPE
PERIMETER TO SPREAD
OVERFLOW. VTRANS TYPE 1 STONE WITH NO FINES KEYED 18" MIN. INTO EXISTING CROUND SECTION VIEW (AT PIPE)

LEVEL SPREADER DETAIL



PLAN VIEW

PRECAST CATCH BASIN



4-1-15 REVISED FOR PRELIMINARY RE-FILING TO CITY DLH 5-24-11 ADD EASEMENT AND CONVEYANCE TO CITY DLH 4-4-11 REVISE LAYOUT DLH 10-29-10 REVISE LAYOUT DLH 8-26-10 GENERAL REVISIONS PER COURT APPEAL DLH 9-11-09 REVISED PERVIOUS CONCRETE DETAILS DLH 7-13-09 REVISED LIGHTING AND LANDSCAPING DLH 1-9-08 REVISED DRIVEWAY LAYOUT DLH 10-5-07 REVISED LAYOUT DLH 8-7-07 REVISED LAYOUT DLH Date These plans shall only be used for the purpose shown below:

PUMP STATION DATA

3. THE TANK SHALL HAVE SUFFICIENT CAPACITY FOR THE SPECIFIED DOSE AND EMERGENCY STORAGE VOLUMES

4. IF LEDGE IS ENCOUNTERED AT A DEPTH INSUFFICIENT TO ACCOMMODATE THE SPECIFIED TANK, THE CONTRACTOR SHALL CONTACT THE ENGINEER FOR ALTERNATE STRUCTURE RECOMMENDATIONS.

87 GPD

- 1 SUBMERSIBLE SEWAGE EJECTOR PUMP CAPABLE OF PUMPING A MINIMUM OF 50 OPM AT 30 FT TOTAL HEAD, SINGLE PHASE (HYDROMATIC SB3S OR EQUAL).

VALVES, SOLID SLEEVE COUPLINGS, AND OPERATION AND MAINTENANCE MANUALS.

SOLUTION AND INTRINSICALLY SAFE. ELECTRICAL CABLE TO BE FLEXIBLE TWO CONDUCTOR WITH REOPRENE JACKET.

WITH 12 HR/DAY FLOWRATE = 3 GPM DAILY FLOW = 1,977 GPD

TOTAL DAILY FLOW (STATE FIGURES)= 1,977 GPD 1,977 GALLONS PROVIDED

PROVIDE 24 HOURS OF STORAGE

H. EMERGENCY STORAGE (BASED ON STATE DESIGN FLOWS WITH FUTURE E

87 GPD

PUMP STATION SPECIFICATIONS

A. DAILY FLOW (BASED ON EPR DESIGN FLOWS): DESIGN FLOW FROM 9 UNITS (210 GPD/UNIT) SEWER MAIN INFILTRATION

1,977 GPD = 2.1 GPM 16 HR/DAY x 60 MIN/HR

3" DELIVERY PIPE (200", SDR 26 PVC) STATIC LIFT (146-125) VALVES & FITTINGS

Act 250 Review
Construction
Record Drawing Sketch/Concept Preliminary
Final Local Review Lands of proj. no. 07028

Tim Alles & Bill Ellis Ethan Allen Parkway, Burlington, Vermont

A PLANNED RESIDENTIAL DEVELOPMENT SANITARY & STORM SEWER **DETAILS AND SPECIFICATIONS**



LAMOUREUX & DICKINSON

N.T.S.

04/09/07

LANDSCAPE SPECIFICATIONS

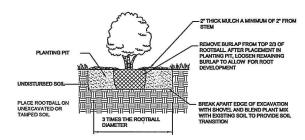
- ALL PLANT MATERIALS SHALL CONFORM TO THE INTERNATIONAL SOCIETY OF ARBORICULTURE PRINCIPALS AND PRACTICES OF PLANTING TREES AND SHRUBS, AND THE MOST RECENT VERSION OF THE AMERICAN STANDARD FOR MICRESTY STOCK AND SIGN.
- CONTRACTOR SHALL STAKE ALL PLANT LOCATIONS AND THE ENGINEER SHALL APPROVE PRIOR TO INSTALLATION.
- CONTRACTOR SHALL PROTECT LANDSCAPE PLANTS AT ALL TIMES FROM SUN AND DRYING WINDS. PLANTS THAT ARE TO BE TEMPORARILY STORED ON SITE LATIN, READY FOR INSTALLATION SHALL BE KEPT SHADED AND PROTECTED WITH SOIL, BARK MULCH OR OTHER ACCEPTABLE MATERIAL AND REQUIARLY WATEREN.
- DURING INSTALLATION OF LANDSCAPE PLANTINGS, CONTRACTOR SHALL DETERMINE WHERE EXISTING UNDERGROUND UTILITIES ARE LOCATED TO AVOID INTERFERENCE.
- STREET TREES TO ARRIVE FROM NURSERY WITH 6 FEET/2 METERS BETWEEN THE FINISHED GRADE AND THE FIRST TREE BRANCH.
- DO NOT PRUNE THE TREES OR SHRUBS AT PLANTING, PRUNE ONLY DEAD OR CRUSHED ROOTS AND DEAD OR INJURED BRANCHES,
- TREES SHALL HAVE A MINIMUM 50% LIVE CROWN RATIO.
- EACH TREE AND SHRUB MUST BE PLANTED SUCH THAT THE ROOT FLARE AND MAIN ORDER ROOTS ARE VISIBLE AT THE TOP OF THE ROOT BALL. WHERE THE MAIN ORDER ROOTS ARE NOT VISIBLE, EXCESS SOIL SHALL BE REMOVED TO LOCATE THEM, PLANT TREES AND SHRUBS SO THAT THE MAIN ORDER ROOTS ARE AT FINISHED GRADE. DO NOT COVER THE TOP OF THE ROOT BALL WITH SOIL OR MALCH.
- EXAMINE ENTIRE TREE AND SHRUB AND REMOVE ALL NURSERY TAGS, TREE WRAP, ROPE, STRING AND SURVEYOR TAPE PRIOR TO PLANTING TO PREVENT GIRDLING.
- FOR ALL TREES AND SHRUBS:
 CUT AND REMOVE WIRE MESH BASKET, CUT AND REMOVE ROPE AND BURLAP WRAP FROM TOP 23 OF ROOTBALL
 AFTER PLACEMENT IN PLANTING PIT. LOOSEN REMAINING BURLAP TO ALLOW FOR ROOT DEVELOPMENT. IF THE
 TREE OR SHRUB HAS SYNTHETIC OR TREATED BURLAP, REMOVE IT ENTIRELY AFTER PLACING ROOT BALL IN
 PLANTING PIT.
- BREAK APART EDGE OF EXCAVATION WITH SHOVEL AND BLEND PLANT MIX WITH EXISTING SOIL TO PROVIDE SOIL TRANSITION
- TREE PIT AREA SHALL HAVE A MINIMUM DEPTH OF 36". SHRUB PLANTING PIT SHALL HAVE A 24" MINIMUM DEPTH. THE TREE PIT AREA SHALL HAVE THE PLANT MIX SPECIFIEDBELOW.
- ING REQUIRED ONLY IN SITUATIONS WHERE TREES WILL BE SUBJECTED TO WINDY CONDITIONS AS RMINED BY THE ENGINEER. STAKES SHALL BE REMOVED BY THE CONTRACTOR AT THE END OF THE
- PLANT MIX SHALL CONSIST OF THE FOLLOWING RATIO: 19 SHART COMPOST, 20 PARTS TOPSOIL PLANT MIX TO BE TESTED AND APPROVED FOR QUALITY BY ENGINEER PRIOR TO INSTALLATION. THE CORRECT GRADE OF COMPOST IS AVAILABLE FROM, BUT NOT LIMITED TO, THE FOLLOWING DANLIFACTURERS: INTERVALE COMPOST PRODUCTS, VERYMONT NATURAL PRODUCTS AND VERMONT COMPOST COMPAIN.
- FOLLOWING PLANTING, FERTILIZER AND MYCORRHIZAL FUNGI SHALL BE APPLIED TO TREES AND SHRUBS.
- ONCE ALL LANDSCAPE PLANTINGS HAVE BEEN INSTALLED, PLACE A LIGHT LAYER OF HEMLOCK OR PINE BARK MULCH; MAXIMUM OF 2* THICK, ON PLANTING BEDS. NO DYED MULCH WILL BE ACCEPTED.
- WATER ALL TREES AND SHRUBS THOROUGHLY ONCE PLANTED TO PULL SOILS AGAINST ROOT BALL AND SETTLE AIR POCKETS. ADDITIONAL SOIL MAY BE NEEDED, WATER AGAIN TO ENSURE COMPLETE COMPACTION. RE-SET SETTLED PLANTS TO PROPER GRADE AND POSITION. RESTORE ADUCEM MATERIAL AND REMOVE DEAD MATERIAL. THERE SHALL BE NO WATERING BERM INSTALLED AROUND PLANTS.
- CORRECT WORK AS SOON AS POSSIBLE AFTER DEFICIENCIES BECOME APPARENT AND WEATHER PERMITS.
- CONTRACTOR IS RESPONSIBLE FOR MAINTENANCE OF ALL LANDSCAPE PLANTINGS AND SHALL INCLIDE PRUNNIS, CLLTIVATING, WEEDING, WATERING, AND APPLICATION OF APPROPRIATE INSECTICIDES AND FUNDICIDES INCESSARY TO MAINTAIN PLANTS FREE OF INSECTS AND DISEASE DURING CONSTRUCTION AND WARRANTY AND LATIL
- 20. ALL LANDSCAPE PLANTS SHALL BE GUARANTEED FOR A PERIOD OF TWO YEARS AFTER PLANTING

TURF ESTABLISHMENT

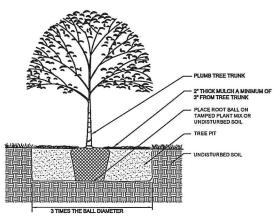
ALL DISTURBED AREAS THAT DO NOT HAVE AN IMPERVIOUS SURFACE (PAVEMENT, SIDEWALKS, ROOFS) SHALL BE STABILIZED WITH SECRING AND MILLOHIND PRIOR TO OCTOBER 1. ANY WORK PERFORMED AFTER SEPTEMBER 1S OF PACH YEAR SHALL BE STABILIZED WITH MILLOH ON ETTIMS SUFFICIENT TO PREVIOUS PROCESS AND SHALL BE AND SHALL BE SHAL

- A MINIMUM OF 4" OF APPROVED TOPSOIL SHALL BE PLACED IN ALL AREAS, PLACEMENT OF TOPSOIL SHALL NOT BE DONE WHEN THE GROUND OR TOPSOIL IS FROZEN, EXCESSIVELY WET, OR OTHERWISH IN A CONDITION DETRIMENTAL TO THE WORK, FOLLOWING PLACE-BURT OF TOPSOIL, THE SURFACE SHALL BE RAKED, ALL STONES, LUMPS, ROOTS, OR OTHER OBJECTIONAL MATERIAL, SHALL BE REMOVED.
- BETWEEN SEPTEMBER 1 AND OCTOBER 1, WINTER RYE SHALL BE OVERSEEDED AT AN APPLICATION RATE OF 100 POUNDS PER ACRE.
- FERTILIZER SHALL CONFORM TO THE STANDARDS OF THE ASSOCIATION OF OFFICIAL AGRICULTURAL CHEMISTS AMOBE APPLIED ONLY AFTER PERFORMING A SOIL TEST AND BE APPLIED BASED UPON SOIL DEFICIENCIES. LIME SHALL ONLY DE RAPPLIED AS NEEDED BASED UPON SOIL PHTEST.
- WITHIN 24 HOURS OF APPLICATION OF SEED, FERTILIZER AND LIME, THE SURFACE SHALL BE MULCHED WITH A HAY MULCH, MULCH SHALL BE SPREAD UNFORMLY OVER THE AREA AT A MINIMUM RATE OF 2 TONS PER ACRE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR A FULL GROWTH OF GRASS IN ALL CISTURBED AREAS TO BE REVISED TATED. VEGETATION GROWTH SHALL BE PERMARENT AND SUFFICIENT TO PREVENT RESOLOHOF THE LINGERTHINS SOIL LUDGER ALL CONSTITUTIONS OF PRECIDENTATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING AND CARING FOR SEEDEI, MALCHED, AND AREAS OF ESTREAUSHED VEGETATION NUTH. FIRM ACCEPTANCE OF THE WORK BY THE OWNER.

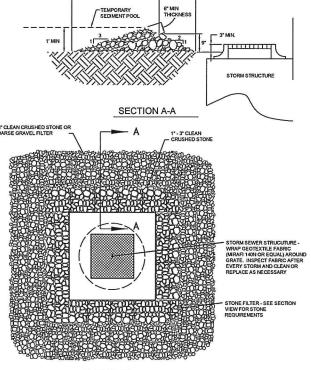
U	RBAN MIX G	RASS SEED	
% BY WEIGHT	LBS. LIVE SEED PER ACRE	TYPE OF SEED	
37.5	45	CREEPING RED FESCUE	
31.25	37.5	KENTUCKY BLUEGRASS	
31.25	37.5	WINTER HARDY, PERENNIAL RYE	
100	120 # LIVE	SEED PER ACRE	



SHRUB PLANTING DETAIL







PLAN VIEW

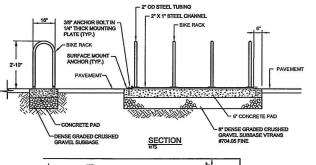
NOTES:

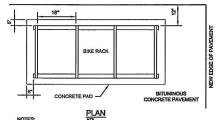
1. INLET PROTECTION TO BE PROVIDED AT ALL CATCHBASINS OR YARD INLETS.

2. THE STONE FILTER SHALL BE INSPECTED FOLLOWING EACH STORM. ACCUMULATED SEDIMENTS
SHALL BE REMOVED AND THE STONE REPLACED AS INCESSARY.

3. THE LIMITS OF THE STONE AROUND THE INLET MAY BE MODIFIED BY THE ENGINEER DEPENDING
ON THE TOPOGRAPHY DIRECTING RUNOFF TO THE CATCHBASIN.

CATCH BASIN INLET PROTECTION



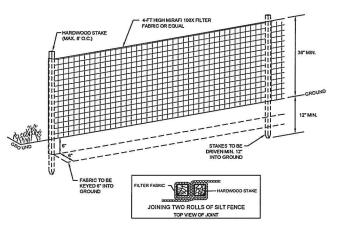


BIKE RACK SHALL BE POWDER COATED STAINLESS STEEL INSTALL
BIKE RACK ACCORDING TO MANUFACTURER'S SPECIFICATIONS.

2. BIKE RACKS SHALL BE POWDER COATED BLACK AND INCLUDE 4 OR 6 RACKS. AS INDICATED ON PLANS.

3. SEE PLAN FOR LOCATION AND LAYOUT.

BIKE RACK DETAIL NTS



NOTES:

JUSE ONLY MANUAL METHODS OF INSTALLATION AND CLEANING WITHIN METLAND AND BUFFER ZONE.

JUSE ONLY MANUAL METHODS OF INSTALLATION ON BEATHAWOWING. THE CONTRACTOR SHALL INSTALL A

CONTINUOUS SILT FENCE AT THE UINT OF ISSUIT BRANCE SHOWN ON THE SITE PLAY.

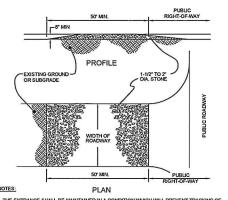
JUSTACZEN MATTERIAL SHALL NOT BE USED TO KEY IN THE BOTTOM OF THE SILT FENCE. IF NECESSARY,

GRANULAR BORROW SHALL BE USED BY THE CONTRACTOR TO KEY IN THE SILT FENCE ATHER THAN

FROZEN NATIVE MATTERIAL.

JUSTAC SHALL NOT SHALL NOT SHALL NOT SHALL SH

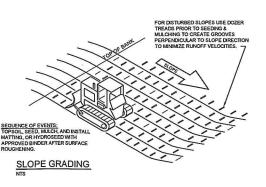
TEMPORARY SILT FENCE

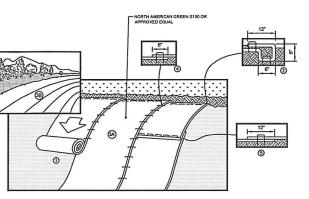


1. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OF SEDMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEAMAD AND REPAIR AUDION CLEANOUT OF ANY MEASURES USED TO TRAP SEDMENT. ALL SEDMENT TRACKED, SPILLED, OR WASHED ONTO PUBLIC RIGHTS-OF-WAY SHALL BE REMOVED IMMEDIATELY BY THE CONTRACTOR.

2. THE USE OF CALCIUM CHLORIDE OR WATER MAY BE NECESSARY TO CONTROL DUST DURING THE 3. PROVIDE APPROPRIATE TRANSITION BETWEEN STABILIZED CONSTRUCTION ENTRANCE AND PUBLIC RIGHT OF WAY

STABILIZED CONSTRUCTION EXIT





1, EROSION MATTING WILL BE USED ON SLOPES STEEPER THAN 3H:1V OR AS SHOWN ON THE PLANS.

PREPARE SOIL BEFORE INSTALLING MATTING, INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED. SOIL SURFACE SHALL BE GRADED SMOOTH WITHOUT ROOTS, STONES OR OTHER PROTUSIONS THAT WILL PREVENT THE MATTING FROM BEING APPLIED IN PULL CONTACT WITH THE SOIL SURFACE.

SEGUINT THE TOP OF THE SLOPE BY ANCHORING THE MATTHIC JIM AT DEEP X IN THE TRENCH WITH A PRODUCT THE ATTHICK DISTRIBUTION OF THE TRENCH ANCHORING THE MATTHICK WITH A ROWO'S TAPLESCTAKES APPROXIMATELY 1/2 APART IN THE BOTTOM OF THE TRENCH BACKFUL AND COMPACT THE TRENCH ATTHICK SAPPLY SEED TO COMPACTED SOIL AND FOLD REMAINS 1/2 PORT OF MATTHICK BACK OVER A SEED AND COMPACTED SOIL AND FOLD REMAINS 1/2 PORT OF MATTHICK BACK OVER A SEED AND COMPACTED SOIL AND FOLD REMAINS 1/2 PORT OF MATTHICK BACK OVER A SEED AND COMPACTED SOIL SECURE MATTHICK OVER COMPACTED SOIL WITH A ROWO'S STAPLESSTAKES SPACED APPROXIMATELY 1/2 PART A CROSS THE WIGHT OF THE MATTHICK.

4. ROLL THE MATTING (A.) DOWN OR (B.) HORIZONTALLY ACROSS THE SLOPE. INSURE THAT THE APPROPRIATE SIDE OF THE MATTING IS AGAINST THE SOLS URFACE, ALL MATTING MUST BE SECURELY FASTERED TO SOLS SURFACE BY PLACING STAYLESTAKES IN APPROPRIATE LOCATIONS AS SHOWNIN THE MANUFACTURERS STAPE PATTERN GUIDE FOR THE PARTICULAR PRODUCT AND APPLICATION, IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 5" MAY BE NECESSARY TO PROPERTY SECURE THE MATTING.

5. THE EDGES OF PARALLEL MATTING MUST BE STAPLED WITH APPROXIMATELY 6" OVERLAP DEPENDING ON TYPE.

6. CONSECUTIVE MATTING SPLICED DOWN THE SLOPE MUST BE PLACED END OVER END (SHINGLE STYLE - WITH THE UPPER MATTING PLACED OVER THE TOP OF THE LOWER MATTING) WITH AN APPROXIMATE 12" OVERLAP, STAPLE THEOLOGH OVERLAPPED AREA, APPROXIMATELY 12" APARTA CROSS SENTRE MATTING WIDTH.

EROSION MATTING FOR SLOPES

4-1-15	REVISED FOR PRELIMINARY RE-FILING TO CITY	DLH
5-24-11	ADD EASEMENT AND CONVEYANCE TO CITY	DLH
4-4-11	REVISE LAYOUT	DLH
10-29-10	REVISE LAYOUT	DLH
8-26-10	GENERAL REVISIONS PER COURT APPEAL	DLH
9-11-09	REVISED PERVIOUS CONCRETE DETAILS	DLH
7-13-09	REVISED LIGHTING AND LANDSCAPING	DLH
1-9-08	REVISED DRIVEWAY LAYOUT	DLH
10-5-07	REVISED LAYOUT	DLH
8-7-07	REVISED LAYOUT	DLH
Date	Revision	By
☐ Fi	nal Local Review Record Drawing	
	eliminary Construction nal Local Review Record Drawing	
	Lands of	proj. no. 07028
Etha A PLA	m Alles & Bill Ellis	survey Others
Etha	an Allen Parkway, Burlington, Vermont	design DLH
A PLA	NNED RESIDENTIAL DEVELOPMENT NDSCAPING & EROSION	drawn SEA
	DETAILS AND	checked DJG
	SPECIFICATIONS	date 04/09/07
	LAMOUREUX & DICKINSON Consulting Engineers, Inc. 14 Morse Drive Essex Junction, VT 05452 Tcf. 802-878-4450	scale N.T.S. sht. no.
		9 of 11

WATER DISTRIBUTION SPECIFICATIONS

This item shall consist of the labor, equipment, and material required for the complete construction of the waterms and services which shall include excavation, backfilling, pipe, valves, tees, hydrarfs, ebows, reducers, and all other appurtenances necessary for a complete watermain system as indicated on the accepted drawings. All materials are installations shall be approved by the local municipal water authority.

1.2 WATER MAIN PIPE MATERIALS:

DUCTILE IRON PIPE

Pipe shall be a minimum diameter of six inches (6") and conform to current AWWA C600 or ANSI Specification A21.51. Push-on joint pipe shall be minimum thickness Class 51.

Pipe shall be cement mortar-lined on the inside in accordance with AWWA C151.51 or ANSI Specification A21.4 except that the cement-lining thickness shall not be less than three-sixteenths inch (3/167). A plus tolerance of one-elighths inch (1/167) will be permitted.

Ductile iron fittings shall be cement-lined, have 350 pounds working pressure, and be in accordance with AWWA C-IOA, C-I10, C-I11, C-I53 for compact fittings. Mechanical joint ruts and toles shall be high stretsly, low alky steel per ANSI A-2 I.11. Ductile iron fittings larger than twelve inches (12) shall lava a standard body length equal to Class 250 cast fron fittings. Cast fron Class 250 fittings will be allowed in feu of ductile iron fittings in sizes larger than twelve inches (12).

Megalug retainer glands or an approved equal shall be used on all vertical bends and as shown on the plans.

Gate valves shall be AWWA C 509 Standard Gate Valves with mechanical joints of sizes as required on the plans. Valves 12° and smaller shall be bubble tight, zero leakage at 200 psi working pressure. All valves shall be of cast or ductile into body, parallel brass seats, non-rising sem, niside serve, whole dick construction with "O" Fing Sem Seals. All valves to be equipped with a valve box for a minimum of 5.5 of cover material. The gate valves shall pene courter clockwise and be provided with a "Z square operating not with arrow cast in metal to indicate decision of opening."

(3) VALVE BURES!

Valve boxes are to be installed on all buried valves. The boxes shall be cast from with a a minimum five and one quarter lont (5 11/4) diameter and long enough to extend from the valve to the finished grade. The boxes shall enclose the operating nut and the stuffing box of the valve. Valve boxes shall not transfer loads onto the valve. Covers shall be close fitting and dirt-flight with the top of the min box. Covers shall be marked "valve" whan a norw indicating the direction of opening. Valve boxes shall be three piece, screw type manufactured by Kennedy figure 121 or equal.

1.6 FIRE HYDRANTS:

All hydrants are to be 3-way, 5" minimum diameter and limited to the following makes: Mueller Centurion figure A-423 or Kennedy Guardian K-81KA, and shall conform with AWWA CS02.

Main Valve Opening: 5 1/4 inches
Nozzle Arrangement: Two 2 1/2 inch hose nozzles NST threads.
One 4 1/2 inch pumper nozzle NST threads.

Inlet Connection: 6 Inch mechanical joint, MECAA-LUG and thrust block Operating Nut: 5 Standard 1" pertagon Direction of Opening: Counterclockvise Color: Enameded hydrat red Depth of Bury: Hydrant shall be installed to the manufacturer's instruction finish grade.

1.7 HYDRANT BRANCHES:

Hydrant assemblies shall consist of a six inch (6") mechanical joint gate valve conforming to AWWA C-509; a length of six inch (6") Class 51 ductile iron pipe with a cement-lining; and the fire hydrant, MEGA-LUG retainer glands or approved entail shall be used.

The Contractor shall install three-fourths inch to two inch (3/47) copper type K services as indicated on the Contract Drawings or as directed by the Engineer. Each service shall consist of a corporation, curbstop, copper taking, and a curb box with service or O. Corporation shall be attached to the ducide in only pet by means of a direct tap.

B. CORPORATIONS

Corporations shall be Waterworks Brass and manufactured in accordance with AWW/A C800. Corporations shall have Mueller threads, adopted as AWW/A Figure \$1, at the inlet and a compression-type fitting at the outset. But outset all be of the same size. Corporations shall be used for all taps barger than three-doubts inch (2/4) in

C. CURBSTOPS

Curbstops shall be a quarter-turn, plug-type valve with an "O" ring-type seal and shall be manufactured of Waterwork Brass in accordance with NWIA CROX. The curbstop shall open list and have a positive stop. No curbstop shall have the sality of the curbstop shall have better the curbstop shall have provision for the connection of a service rod. Curbstops shall be Mueller H-15200 or equal. (Mueller 200 Ball Valves are not acceptable)

D. SERVICE LINES

Copper tubing shall by type "K", soft-temper, conforming to ASTM B88. The name or trademark of the manufacturer and type shall be stamped at regular intervals along the pipe.

All domestic services and domestic fre sprinkler systems that are connected to the public water system shall be protected according to their degree of hazard, with a backflow prevention assembly, and with an appropriate thermal expansion system.

Curb boxes shall be of the sliding adjustable-type capable of adjusting from five feet to skr feet (5'-6'). The base of the box shall be arch-type so as to prevent the box from resting directly on the curbstop. The adjustable upper section shall be one inch (1') in diameter for use with three-fourths and one inch (34" and 1") curbstops. For larger curbstops, the upper section shall be one and one-fourths inches (1'14") in diameter.

Stationary rods affixed to the key of the curbstop shall be thirty inches (30') in length for three-fourths and one in (34" and 1") curbstops and twenty-four inches (24") for larger curbstops. The cover of the box shall be by "Akeled" the two-hole cover. The word "WATER" shall be inscribed on the cover of the box. Both the cover and the upper section of the box shall be able to be located with an aqua-type metal locator.

F. BUILDING SERVICE CONSTRUCTION METHODS

The Contractor shall also connect the type "K" copper service pipe to the flanged joint, which shall be connected to the brass type curbstop with links and outlet for the appropriate type "K" copper service pipe. Such curbstop shall be located not less than six feet (6) below the ground surface and shall be accessible from the surface through an approved valve by

Unit Connections: The unit connections shall be made by installing three-fourths inch (S/4") type N' copper pipe approved equal on the end of the approved brass curbstop and proceeding through the coloir wall to an approved the state of the approved brass curbstop and proceeding through the coloir wall to an approved the state of the state o

All pipe and fittings shall be inspected and tested in accordance with the manufacturer's specifications in remembioned AWWA Specifications. The Contractor shall furnish for approval certification from the pipe inufacturer that all tests have been performed with satisfactory results. Pipe shall not be installed without

All pipes showing cracks shall be rejected. If cracks occur in the pipe, the Contractor may, at his own expense with the approval of the Engineer, cut off the cracked portions at a point at least heelve inches (12) from the visible limits of the crack and use the sound portion of the pipe. All pipes and fitnings shall be cleared of all foreign matter redebirs prior to installation and shall be kept clean until the time of acceptance by the Owner.

At all times, when the pipe laying is not actually in progress, the open ends of the pipe shall be closed by temporary waterlight plugs or by other approved means. If water is in the trench when work is resumed, the plug shall not be removed until all danger of water entering the pipe has passed. The pipe shall be installed in trenches and at the line and grade shown on the Contract Drawings.

Any deflection joints shall be within the limits specified by the manufacturer. All piping and apputerances the property of the equipment. If the equipment of the property o

There shall be no physical connection between the distribution system and any pipes, pumps, hydrants, or tanks which are supplied or may be supplied with a water that is, or may be, contaminated. In instances where the use of different types of pipe require joining, the Contractor shall furnish and ristall all necessary adapters.

The Contractor shall, at all times, keep the trenches entirely free of water until all work is finished and ready for backfilling. After the various pipelines have been installed, the tenches and other areas to be filled shall be backfill subgrade with, wherever possible, material excavated from the trench. No backfilling will be allowed until any conc masonry has set sufficiently, as determined by the Engineer.

All material for backfilling shall be free of roots, stumps, and frost. Materials used for backfilling tenches shall be free of stones weighing over 30 pounds. No stones measuring over one and one-half inches (1 1/27) in the longest dimension shall be placed within one foot (17 of the picine being backfilled.)

Backfill for all pipelines shall be placed in six Inch (6') layers, each layer being thoroughly compacted to not less than 55 percent of maximum dry density as determined by the AASHTO-Te9 Standard Protox. Particular precautions shall be taken in the placement and compaction of the backfill material in order not to damage the pipe or structure. The backfill shall be brought up evenly. All watermains shall be installed with a minimum cover depth of six (6).

Surplus excavated materials not used for backfill shall be disposed of in a manner satisfactory to the Engineer. All surplus material or spoil shall be removed promptly and disposed of so as not to be objectionable to abutiers or to the general public.

The contractor shall provide a stable, temporary PVC marker approved by the Engineer at all gate valves, curb stops and at the end of waterlines to a point six inches (67) above finish grade. The marker shall be seated securely into the

C. FIELD TESTING

Except as otherwise directed, all pipelines shall be tested. Pipelines laid in excavation or bedded in concrete shall be tested prior to backfilling or the placing of concrete, and any exposed piping shall be tested prior to field painting. The control will be provided the property of the place of the place of the provided provided the provided provided provided the provided pro

For the pressure test, the Contractor shall develop and maintain 200 pounds per square inch for two hours. Failure to d the designated pressure for the two-hour period constitutes a failure of the section tested. The leakage test shall be formed concurrently with the pressure test. During the test, the Cortactor shall measure the quantity of water quired to maintain the test pressure. Leakage shall not exceed the quantity given by:

L = SD (Square root of P) / 148,000

- where: L = Leakage in gallons/hour S = Length of pipeline tested

All testing shall be conducted in accordance with AWWA C-600 latest revision. Should any section of the pipe fail either the pressure or leakage tests, the Contractor shall do wreything necessary to locate and repair or replace the defective pop. fittings, or plots at no expense to the Owner.

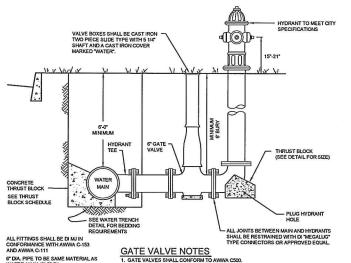
D. DISINFECTION

Chlorination of the watermain shall be conducted only after the main has been flushed and a clear stream is obtained as determined by the Engineer.

The method of disinfection shall be by the continuous feed method unless otherwise approved by the Engineer. After filling, flushing, and the addition of chlorine solution, the free chlorine concentration within the pipe shall be at least 25 mg/l. The chlorinated water hall remain in the main for a period of a least 24 hours. It the end of this period, the treated water in all portions of the main shall not have a residual of less than 10 mg/l of the otherine. All districtions hall be periormed under the supervision of the Engineer. The distriction process shall be deemed acceptable only after (2) samples of water from the flushed, districted main taken by the Engineer and tested at an approved laboratory shown or widered or Startfeldiggiel containsation. Districtions hall correction to be listed.

The pipeline and appurtenances shall be maintained in an uncontaminated condition until final acceptance, rection shall be repeated when and where required at no expense to the Owner until final acceptance by the

Waterlines with less than six feet (6) of cover over the crown, or where indicated on the plans, shall be protected against freezing by installation of two inch (7) thick Styrofoam SM insulating sheets with a total width of four feet (6) or twice the pips diameter, whichever is greater. The sheets shall be placed six refers (6) above the crown of the sheet shall be placed six refers (7) above the crown of the contractor of the sheet shall be set of the contractor of the contractor of the sheet sheet



NOTES:

2. THE GATE VALVES SHALL OPEN LEFT AND BE DESIGNED FOR A WORKING PRESSURE OF 200 PSI

SPLIT SLEEVE TAPPING SLEEVE TO BE APPROVED BY C.F.D. #3, STAINLESS STEEL SLEEVES NOT ALLOWED.

- SPLIT END GASKET

TAPPING VALVE

TAPPING SLEEVES SHALL BE OF THE SPLIT SLEEVE DESIGN CONSTRUCTED WITH TWO SOUD HALF-SLEEVES BOLTED
TOGETHER SLEEVES SHALL BE CONSTRUCTED OF CONTILE IRON, SHALL HAVE A WORKING PRESSURE OF AT LEAST 150
PSI, AND SHALL HAVE MCHANNOL, JOINT ENDS AND SIDE GASKET SEALS.

ALL IRON BODY TAPPING SLEEVES SHALL BE PROVIDED WITH A 3/4" NPT TEST PLUG, OR OTHER PROVISIONS MUST BE MADE FOR AIR TESTING THE VALVE AND SLEEVE AT MAXIMUM WORKING PRESSURE, PRIOR TO TAPPING.

3. ALL BOLTS AND NUTS FOR FLANGED JOINTS OF TAPPING SLEEVES SHALL BE OF AISC TYPE 304 STAINLESS STEEL

ALL BOLTS AND NUTS SHALL BE SOUND, CLEAN, AND COATED WITH A RUST RESISTANT-LUBRICANT; THEIR SURFACES SHALL BE FREE OF GRIECTIONABLE PROTRUSIONS THAT WOULD INTERFERE WITH THEIR FIT IN THE MADE-UP MECHANICAL OR FLANSED JOINT.

6. ALL EXTERIOR EXPOSED SURFACES SHALL BE FUSION BOND, EPOXY COATED TO A MINIMUM OF 10 MIL, THICKNESS,

ALL BOLTS AND NUTS USED WITH ALL PIPE SLEEVES SHALL, UPON FINAL TIGHTENING AND TESTING, BE BRUSH COATED HEAVILT WITH BITUMASTIC COLDAPPLIED MATERIAL TO THOROUGHLY COVER ALL EXPOSED SURFACES OF THE BOLTS AND NUTS.

TAPPING VALVE and SLEEVE DETAIL

4. ALL EXTERIOR BOLTS AND NUTS FOR TAPPING SLEEVES OR VALVES SHALL BE STAINLESS STEFT.

ALL GATE VALVES SHALL BE OF CAST OR DUCTILE IRON BODY, PARALLEL BRASS SEATS, NON-RISING STEM, INSIDE SCREW, RESILIENT WEDGE CONSTRUCTION WITH "O" RING STEM SEALS.

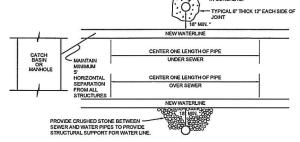
4. ALL VALVES SHALL BE EQUIPPED WITH A VALVE BOX FOR A MINIMUM OF 5' OF COVER MATERIAL.

/////// PROVIDE PVC MARKER MUELLER B-25209 CURB STOP 2° TYPE "K COPPER 3/4" TYPE 16' COPPER SERVICE OR 2" CL200 PVC AS SHOWN ON PLAN THE WATER SERVICE SHALL RUN PERPENDICULAR FROM THE 2" LINE TO THE BUILDING SEE WATER TRENCH DETAIL FOR TYPICAL BEDDING REQUIREMENTS WATER SERVICE DETAIL CENTER ONE FULL SECTION OF SEWER PIPE ON WATER PIPE AND ENCASE ENDS IN CONCRETE.

- CONCRETE BLOCK TAPPING VALVE

TAPPING VALVE SHALL CONFORM TO ANSIJAWWA 0509-97 STANDARD FOR RESILIENT-SEALED GATE VALVES FOR WATER AND SEWAGE SYSTEMS, EXCEPT AS MODIFIED HERBIN VALVES SHALL OFEN COUNTERCLOCKWISE AND SHALL HAVE A MINIMUM WORKIND PRESSURE OF 20 PS. INLET FLAVSES SHALL BE CLASS 125 CONFORMING TO ANSI SPECIFICATION BIS. 1 OR ANSIJAWWA CHIDAZI.10, AND OUTLET CONNECTIONS SHALL BE STANDARIZED MECHANICAL JOHNS.

BURIED TAPPING VALVES SHALL BE PROVIDED WITH A 7 SOLINGE WRENCH INJT AND SHALL BE INSTALLED WITH A CAST IRON WALVE SOX AS REQUERED TO ALLOW POSITIVE ACCESS TO THE VALVE OPERATION BUT AT ALL TIMES, IN INSTALAL ORDS WHERE THE EPRIFYHOLOGACIES TO THE VALVE SIG GREATER THEM 6°C, A VALVE STEM RISER SHALL BE PROVIDED AND INSTALLED SUCH THAT THE DEPTH FROM VALVE STEM RISERS SHALL BE OF HIGH STRENGTH STEEL AND OF WELLDED CONSTRUCTION.



VERTICAL SEPARATION AT CROSSINGS:

SEWERS CROSSING WATER MAINS SHALL BE LAID BENEATH THE WATER MAIN WITH AT LEAST 18' VERTICAL CLEARANCE BETWEEN THE OUTSIDE OF THE SEWER AND THE OUTSIDE OF THE WATER MAIN. WHEN IT IS IMPOSSIBLE OR IMPRACTICAL TO MAINTAIN THE 18' VERTICAL SEPARATION OR WHERE THE SEWER MUST BE LAID ABOVE THE WATER MAIN, THE FOLLOWING CRITERA APPLY:

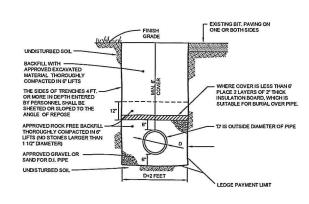
(A) THE CROSSINGS SHALL BE ARRANGED SO THAT ONE FULL LENGTH OF SEWER IS CENTERED ABOVE OR BELOW THE WATER LINE WITH SEWER JOINTS AS FAR AS POSSIBLE FROM WATER JOINTS;

(B) THE SEWER PIPE MUST BE CONSTRUCTED TO WATER MAIN STANDARDS FOR A MINIMUM DISTAL EITHER SIDE OF THE CROSSING OR A TOTAL OF THREE PIPE LENGTHS, WHICHEVER IS GREATER;

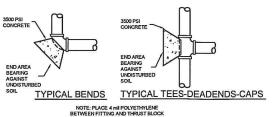
(C) THE SECTION CONSTRUCTED TO WATER MAIN STANDARDS MUST BE PRESSURE TESTED TO MAINTAIN 50 PSI FO 15 MINUTES WITHOUT LEAKAGE PRIOR TO BACKFILLING BEYOND ONE FOOT ABOVE THE PIPE, TO ASSURE WATER TIGHTNESS:

(D) WHERE A WATER MAIN CROSSES UNDER A SEWER, ADEQUATE STRUCTURAL SUPPORT SHALL BE PROVIDED FOR THE SEWER TO PREVENT DAMAGE TO THE WATER MAIN.

SEWER / WATER SEPARATION DETAIL FOR CROSSINGS NTS



TYPICAL WATER TRENCH DETAIL



SIZE	6*	8*	12*
11/4 & 22 /2	2	2	5
45*	2	4	9
90*	4	8	17
TEES OR END CAPS	3	6	12
VALVES	2	2	2

BASED ON 100 PSI WORKING PRESSURE PLUS 100 PSI SURGE ALLOWANCE AND BEARING CAPACITY OF 2000 LBS/SQ FT

THRUST BLOCK DETAIL

4-1-15	REVISED FOR PRELIMINARY RE-FILING TO CITY	DLH
5-24-11	ADD EASEMENT AND CONVEYANCE TO CITY	DLH
4-4-11	REVISE LAYOUT	DLH
10-29-10	REVISE LAYOUT	DLH
8-26-10	GENERAL REVISIONS PER COURT APPEAL	DLH
9-11-09	REVISED PERVIOUS CONCRETE DETAILS	DLH
7-13-09	REVISED LIGHTING AND LANDSCAPING	DLH
1-9-08	REVISED DRIVEWAY LAYOUT	DLH
10-5-07	REVISED LAYOUT	DLH
8-7-07	REVISED LAYOUT	DLH
Date	Revision	By

Preliminary Construction Final Local Review Record Drawing	
Lands of	proj. no. 07028
Tim Alles & Bill Ellis	survey Others
Ethan Allen Parkway, Burlington, Vermont	design DLH
A PLANNED RESIDENTIAL DEVELOPMENT WATER	drawn SEA
DETAILS AND	checked DJG
SPECIFICATIONS	date 04/09/07
	scale

Act 250 Review

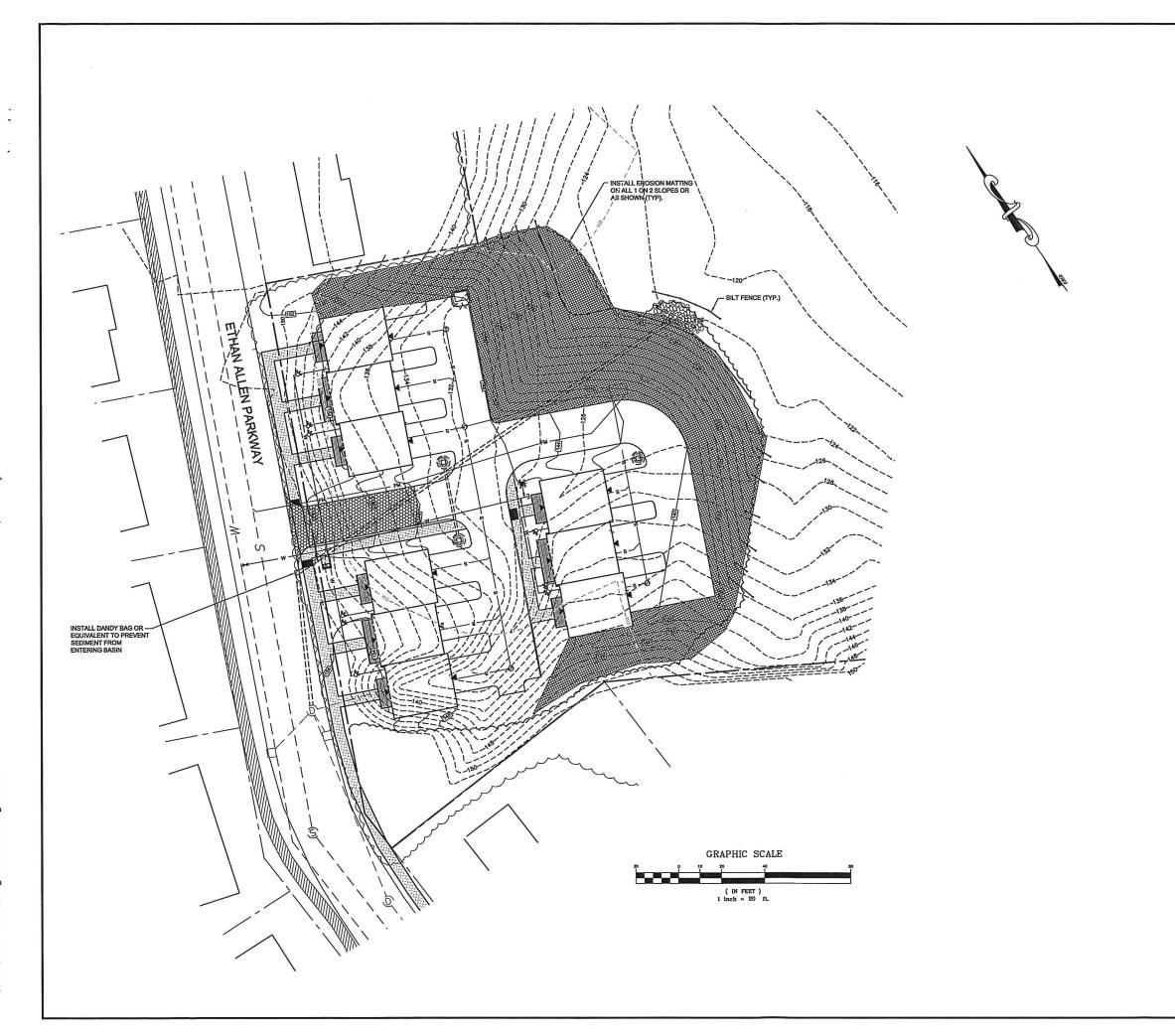


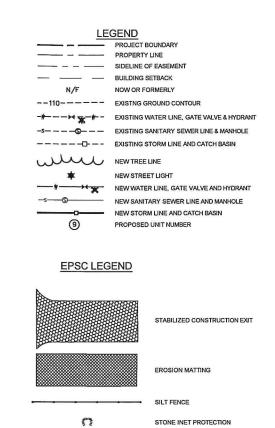
Sketch/Concept

LAMOUREUX & DICKINSON Consulting Engineers, Inc. 14 Morse Drive

10

N.T.S.





5-24-11	ADD EASEMENT AND	CONVEYANCE TO CITY	DLH
4-4-11	REVISE LAYOUT		DLH
10-29-10	REVISE LAYOUT		DLH
8-26-10	GENERAL REVISIONS	S PER COURT APPEAL	DLH
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10-5-07	REVISED LAYOUT		DLH
8-7-07	REVISED LAYOUT		DLH
Date	Revis	sion	By
Pre	tch/Concept liminary al Local Review	Act 250 Review Construction Record Drawing	
]	at Documenter	Record Drawing	
	Lands o	of	proj. no. 07028
		of	
Ti	Lands o	Bill Ellis	07028 survey Others design
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	Lands of Market Lands of Market Lands of Market Lands of Market Lands of La	BIII EIIIS dington, Vermont DEVELOPMENT ENTION & TROL PLAN	o7028 survey Others design DLH drawn SEA checked DJG date 04/09/07 scale



Product Specifications Report

DEPARTMENT OF PLANNING & Z**GGAQUII lighting**.

Job Name: Job Type:

Comments: Quantity:

8844-85: Manufactured by Sea Gull Lighting

8844-85 - Single-Light Charleston Wall Lantern

Collection: Charleston

Scrolled Gold Patina Cast Aluminum Single Light Outdoor Wall

Lantern with Clear Seeded Glass.

UPC #: 785652884450

Fixture Type: Outdoor

Finish: Gold Patina (85)

Dimensions:

Width: 8"

Center of outlet box Down: 5 3/4"

Height: 15 1/2"

Canopy Depth: 1"

Extends Max: 9 3/4"

Canopy Height: 9 1/4"

Wire: 6 1/2"

Bulbs:

1 - Medium A - Line 100w max - Bulb Not Included

Clear Bulb Recomended

Material List:

Material #1: Canopy - Die Cast Aluminum - Gold Patina

Material #2: Bracket - Die Cast Aluminum - Gold Patina

Material #3: Holder - Die Cast Aluminum - Gold Patina

Material #4: Housing - Glass - Clear Seeded

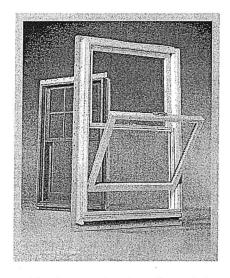
Saftey Listing:

cUL Listed for Wet Locations

Features:	
	•Replacement Glass Order: <u>G500125-67</u>
	Instruction Sheets
	*English(HC-417) *French(F-009)

Shipping Information (UPS Shipable:YES)														
Individual	Weight	Length	Width	Height	Carton	Weight	Length	Width	Height	Case	Weight	Length	Width	Height
Qty: 1	9 lbs	14.78"	13.58"	20.78"	Qty:1	9 lbs	14.78"	13.58"	20.78"	Qty:25	225 lbs	48"	40"	67"

Create PDF



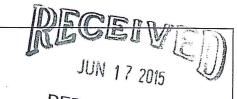
- Slim frame and sash profile maximize the field of view
- Excellent for creating window combinations
- · Easy to clean.
- · Low maintenance.

Contents

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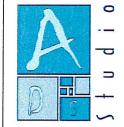
DEPARTMENT OF PLANNING & ZONING



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1 North
1/8" = 1'-0"



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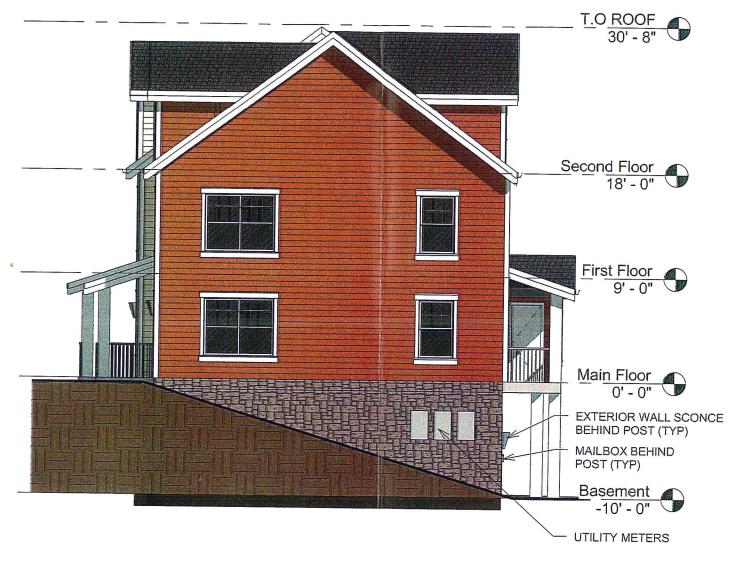
ELLIS/ALLES LIAHONA WAY

Description	Date
	Description

NORTH	H ELEVAT	ION
Project number		
Date	10/11/07	\Box A2
Orawn by		7 12
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RECEIVED
JUN 17 2015

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1 East 1/8" = 1'-0"



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ELLIS/ALLES LIAHONA WAY

No.	Description	Date

EAST	ELEVATIO	N
Project num	ber	
Date	10/11/07	A3
Drawn by		7.0
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1 South 1/8" = 1'-0"



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ELLIS/ALLES LIAHONA WAY

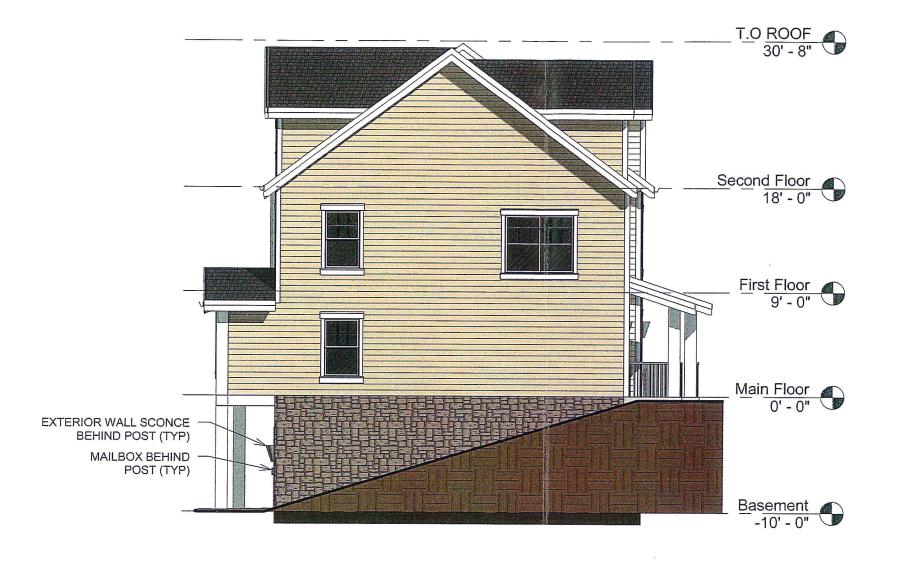
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SOUTH	H ELEVAT	ION	
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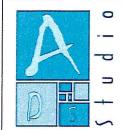
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West 1/8" = 1'-0"



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ELLIS/ALLES LIAHONA WAY

Description	Date
	Description

WEST	Γ ELEVATIO	NC	
Project number			1
Date	10/11/07	A5	
Drawn by		7 10	
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